

# A T A B L E,

## SETTING FORTH

### The maner of that great Philosopher the Lord Chancellor Bacons

Searching for Mettals by making Addits through the lowest Level of Hills or Mountains, and conveying Aire into the innermost parts of their Center by Pipe and Bellows; as well as by Art to mollifie the hardest Stone, without the tedious way and inestimable Charge of sinking Aery Shafts; and is now intended to be put in practice by his Meniall Servant *Thomas Bushell*, on *Hingston-Downe*, according to his Lordships command, and the approbation of that great Mineralist, *Sir Francis Godolphine*; with the demonstrative Reasons of each particular to the Lords of the Fee, and Proprietors of *Hingston-Downe*, is as followeth;

### The Beacon

Note that between every double Line is contained 40. Fathom for the close Addit, And at each end 150 Fathom for the open Addit.



M. The Mountain  
O. The old Shafts that have been sunk.  
S. The Shafts supposed to be sunk, but avoided by the new way of Addit.  
B. The Pipe and Bellows

**F**irst, the true description of *Hingston-downe*, lieth in Longitude *East* and *West* five Miles, with Millions of Shafts that have been visibly Sunck upon several loads of Mettall, by the *Romans*, *Danes*, *Saxons*, *Jews*, and *Britans*. And is in breadth 700 Fathom at the *Base* lying *North* and *South*, as well as in depth 200 Fathom from the *Beacon* perpendicular to the Center of that addit now intended.

The reason why I undertake a work of this nature, and in these parts, is as followeth;

**F**irst, the Ambition of gratitude to answer his Highness Heroick trust, reposed in me to discover this Nations Mineral Treasure.

Secondly, my obliged fidelity, to my Lord Chancellor *Bacon*, to practice this his Philosophical invention, for the general good; and in particular to give new birth to the drooping conditions of my fellow Pupills, the poor Miners drowned and deserted works.

Thirdly, my Cordial desire to serve these *Western* parts with the benefit of so usefull a president, I having already practised the same in *Wales*, and found the fruitfull effects thereof.

Secondly, the reasons why I begin my Addit or Aqueducts, from *Small-Cooms* and *Hook-Cooms*, so meet underneath the Beacon at the aforesaid Center, is;

**F**irst, because these *Cooms* lying lowest equall with my addits, all the water that shall fall from the superficies being 200 Fathom perpendicular to the levell of my said Addits, may by that meanes be easily conveyed away.

Secondly by mine own experience, I found not any of our predecessors to search lower then 40 Fathom. So that I am confidently assured, that cutting *North* and *South* thorough the aforesaid 700 Fathom, I shall command all the Loads, Rakes, and Veins of Mettall in that Hill, which is conjectured by the multitude of Shafts upon the superficies to run five Miles in length as aforesaid; and how probable then may it be to reedifie a second *Judas* out of the drowned and deserted works of our Nation by this example, I shall leave to the rational Judgments of them who are practitioners in those affairs; Especially whether these mine endeavors will not give much hopes to verifie the old proverb in this age of ours, *Hingston-downe well wrought, is worth London towne dearely bought*. For if the riches of those Groves in 40 Fathom sinking hath occasioned the aforesaid proverb, as well as the inundation of water hath caused them to desert from their Mineral profit, it cannot be denied by common sense, or rules of reason, this addit undermining most of the said works 150 Fathom, and then ascending up into their several loads of Mettall, to draine the waters in their old Groves, but that it carries the fairest encouragement of probable conjecture to make good the true riches of the old proverb of *Hingston-downe*, in this age of ours.

The reason why I use Pipe and Bellows, is,

**F**irst, to convey Aire into the innermost part of my Addit without the sinking of Aery Shafts, and preventing the vast expence and tediousness of time, which caused our Forefathers being ignorant of this invention, to leave such supposed riches of hidden Treasure to us their posterity.

The reason why I make my Addit or Aqueducts open 150 Fathom at each end, is,

**F**irst, to facilitate the dispatch of 300 Fathom of the 700 the first year, by the reason of the multitude of hands that may be set on work, which will not be admitted if close, and likewise it being the shallowest place of the Hill, it will require but the same expence.

Secondly, that the close Addit may be but in length 400 Fathom of the 700. and to shorten likewise the drift of the same in point of time, I begin my Addits at each end of my open Trench as Counter-drifts to meet each other. And so consequently the whole will be dispatched in halfe the time; And therefore you may rest assured that I have so maturely Calculated the wayes and means, not onely of this great work at *Hingston-downe*, but also of that of *Coom-Martin* in *Devon*, *Guinop* in *Cornwall*, and

*Mendyp* in *Somerset*, that I doubt not, but in 4 years to set a period to all expectations, if God permit, and I have the honor of your wellwishes.

The reason why I make the dimension of my Addit 10 Foot broad, and 10 foot high, keeping my levell equall in my open and close Aqueducts, with the lowest depth of the *Cooms*, is,

**F**irst, because it drawes the inundation of Water from the whole Hill, and conveying the more plenty of Aire into the lesser Addits, which must follow the loads of Mettall when we cross them in our common shore or principall Addit, as also to prevent those Damps that frequently arise from the sulphurous nature of the earth at that Center.

Secondly, for the more convenient passage of Wheel Barrowes each by other in sockets of Timber, to carry the loads of Mettall and Rubbish out of the severall Addits.

Thirdly, because I have found by mine own experience in cutting thorough other Mountaines of the like nature, the great inconvenience of little Addits, in respect of the aforesaid reasons, and likewise the prejudice I have received in being careless of losing a foot in the levell, when I met with the several Loads and Veins of Mettall.

The reason why I do not willingly desire any other Partner but Providence, and his Highness patronizing this great enterprise of *Hingston-downe*, *Coom Martin* in *Devon*, *Guinop* in *Cornwall*, and *Mendyp* in *Somerset*, is,

**F**irst, because I have had already the experience of some Partners, and found the fruits of Providence to assist me more, when they did ever decline the Mineral designe, then when I had compliance with their severall purses, which made me call to mind his Lordships frequent observation, that many partners in the publick acts of Mineral adventures, where greedines of gaine had more rule in their hearts, then to illustrate the Creators glory, became usually the sad *Elogie* of Misfortune and discouragement to others.

Secondly, for that if those two Addits at *Hingston-downe* prosper according to the Proverb, and the other two at *Coom Martin*, and *Guinop* aforesaid, one tenth part must be solely dedicated to prosecute the like works in the other 20 Mountaines, marked out by the aforesaid Lord, and that great Mineralist *Sir Francis Godolphine*, who both subscribed it under their hands, to be the most harmless gaine and greatest good to a Common-wealth, the choicest study and endeavors of the best bred persons in other Nations, and the most Honourable Employment this world was capable of.

Thirdly, because I have found the faithfulness of such friendship in some friends which heretofore gave me credit, as out of their owne honesty, and noble nature, they have been willing to accept of their present use, and forbore their principall three years, rather then such a Mineral designe should perish, and I incapable to prosecute the same for the Publick Good, and honor of the Nation.

Lastly, because I conceive all Mines were created for Mans Use and Gods Glory, but in what age to be revealed, or by whom, is onely known to the searcher of all hearts, who can best judge of mine and my designed ends. So that it may be probably hoped that this age of ours which hath had such a strange revolution of Providence, is appointed by the Disposer of all things, to disclose the same to publick Sight, for where I had enlarged by discourse, my Lord *Bacon*s observations to his Highness of the spreading Veines or Loads of Mettall in this Northerne Clymate, I found such a naturall inclination of his Highness wisdom, to further these Conceptions of my *Quondam Master*, practised by my selfe, as he hath granted me the whole power of his assistance to search for such Minerals; And likewise promised the continuance of his favours, and to make good my Articles, for the ends holden forth. And what person then of an ingenious spirit that is not imposed with envie, will beare unfriendly thoughts to those that search after such subterranean treasure at their owne charge, for the good and honor of their native Country, and which in a manner is presented unto them by the hands of God?